

This listing of claims:

Listing of Claims:

1. (Previously Presented): An ion-conductive thermoplastic composition comprising:

- a partially acetalated polyvinyl alcohol,
- 0.1 to 25 % by weight of at least one support electrolyte,
- and at least one plasticizer,

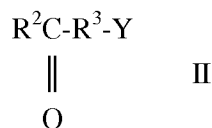
wherein said partially acetalated polyvinyl alcohol is a co-polymer containing monomer units of:

- vinyl acetate,
- vinyl alcohol,
- acetal I from vinyl alcohol and at least one aldehyde of formula I



wherein R^1 is branched or unbranched alkyl radical with 1 to 10 carbon atoms, and

- acetal II from vinyl alcohol and a carbonyl compound of formula II



wherein R^2 is H, or branched or unbranched alkyl radical with 1 to 10 carbon atoms, R^3 is a direct compound, branched or unbranched alkyl radical with 1 to 10 carbon atoms, or aryl radical with 6 to 18 carbon atoms, and Y is $-\text{CO}_2\text{H}$, $-\text{SO}_3\text{H}$, or $-\text{PO}_3\text{H}_2$.

2. (Previously Presented): An ion-conductive thermoplastic composition according to claim 1, wherein the ratio of the acetal I to acetal II monomer units in the partially acetalated polyvinyl alcohol is 1:1 to 10,000:1.

3. (Previously Presented): An ion-conductive thermoplastic composition according to claim 1, wherein the partially acetalated polyvinyl alcohol contains;

- 0.01 to 5 % by weight of polyvinyl acetate,
- 10 to 40 % by weight of vinyl alcohol, and
- 40 to 80 % by weight of acetyls I and II.

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4. (Previously Presented): An ion-conductive thermoplastic composition according to claim 1, wherein acid-functionalized aldehydes are used as said carbonyl compound of formula II.

5. (Withdrawn): An electrochromic composite system comprising two bodies coated with electrodes, at least one of which is transparent, and at least one exhibits an electrochromic film, wherein said bodies which are separated by a foil with a composition according to claim 1.

6. (Withdrawn): An electrochromic composite system according to claim 5, wherein at least one of the electrochromic films contains a metal polycyanometallate, transition metal oxide, or conductive polymer modifying the color on cathodic reduction.

7. (Withdrawn): An electrochromic composite system according to claim 5, wherein at least one of the electrochromic films contains a metal polycyanometallate, transition metal oxide, or conductive polymer modifying the color on anodic oxidation.

8. (Withdrawn): A process for the production of an ion-conductive foil, comprising:
extruding a mixture of:

a) 50 – 90% by weight of a partially acetalated polyvinyl alcohol containing monomer units of:

- vinyl acetate,
- vinyl alcohol,
- acetal I from vinyl alcohol and at least one aldehyde of formula I

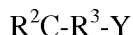


I

wherein R^1 is branched or unbranched alkyl radical with 1 to 10 carbon atoms,

and

- acetal II from vinyl alcohol and a carbonyl compound of formula II



II

wherein R^2 is H, or branched or unbranched alkyl radical with 1 to 10 carbon atoms, R^3 is a direct compound, branched or unbranched alkyl radical with 1 to 10 carbon atoms, or aryl radical with 6 to 18 carbon atoms, and Y is $-CO_2H$, $-SO_3H$, or -

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PO₃H₂;

- b) 10 to 50% by weight of at least one plasticizer, and
- c) 0.1 to 25% by weight of at least one support electrolyte

9. (Withdrawn): A process according to claim 8, wherein the extrusion is carried out under melt fracture conditions.

10. (Withdrawn): A process according to claim 8, wherein the foil is embossed on one side or both sides with a roughness of R₂ of 40-120 µm.

11. (Previously Presented): An ion-conductive thermoplastic composition according to claim 1, wherein said composition comprises:

- 50 to 90 % by weight of said partially acetalated polyvinyl alcohol; and
- 10 to 50 % by weight of said at least one plasticizer.

12. (Previously Presented): An ion-conductive thermoplastic composition according to claim 1, wherein said composition comprises:

- 50 – 70 % by weight of said partially acetalated polyvinyl alcohol;
- 20 to 40 % by weight of said at least one plasticizer, and
- 2 – 10 % by weight, of at least one support electrolyte.

13. (Previously Presented): An ion-conductive thermoplastic composition according to claim 1, wherein said acetal II is obtained from vinyl alcohol and/or vinyl alcohol units of polyvinyl alcohol and an acid-functionalized aldehyde, wherein acid-functionalized aldehyde is glyoxylic acid or pyruvic acid.

14. (Previously Presented): An ion-conductive thermoplastic composition according to claim 1, wherein said acetal I is obtained by reacting vinyl alcohol and/or vinyl alcohol units of polyvinyl alcohol with at least one aldehyde selected from formaldehyde, acetaldehyde, propanal, n-butanal, isobutanal, pentanal, hexanal, heptanal, octanal and/or nonanal.

15. (Previously Presented): An ion-conductive thermoplastic composition according to claim 1, wherein the ratio of the acetal I to acetal II monomer units in the

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partially acetalated polyvinyl alcohol is 10:1 to 1000:1.

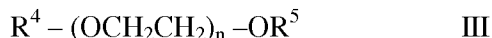
16. (Previously Presented): An ion-conductive thermoplastic composition according to claim 1, wherein the ratio of the acetal I to acetal II monomer units in the partially acetalated polyvinyl alcohol is 100:1 to 1000:1.

17. (Previously Presented): An ion-conductive thermoplastic composition according to claim 1, wherein the partially acetalated polyvinyl alcohol contains;

- 0.01 to 5 % by weight of polyvinyl acetate,
- 15 to 35 % by weight of vinyl alcohol, and
- 45 to 75 % by weight of acetyls I and II.

18. (Previously Presented): An ion-conductive thermoplastic composition according to claim 1, wherein at least one support electrolyte comprises LiClO₄, LiPF₆, LiSbF₆, LiAsF₆, Li(CF₃COO), LiBF₄, LiCF₃SO₃, Li₂C₂O₄, LiN(SO₂CF₃)₂ or lithium bisoxalatoborate (LiC₄BO₈).

19. (Previously Presented): An ion-conductive thermoplastic composition according to claim 1, wherein said at least one plasticizer is a compound of formula III



wherein R⁴ and R⁵ each represent identical or different, branched or unbranched, cyclic or acyclic, aliphatic and/or aromatic hydrocarbon radicals with 1 to 15 carbon atoms or H, and n is 1 - 5.

20. (Previously Presented): An electrochromic composite system according to claim 5, wherein said at least one of which is transparent electrode comprises indium-doped tin oxide, aluminum-doped zinc oxide, fluorine-doped tin dioxide, or antimony-doped tin dioxide.